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**west virginia** department of environmental protection

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Office of Oil and Gas  
601 57th Street SE  
Charleston, WV 25304  
(304) 926-0450  
(304) 926-0452 fax

Earl Ray Tomblin, Governor  
Randy C. Huffman, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

January 09, 2014

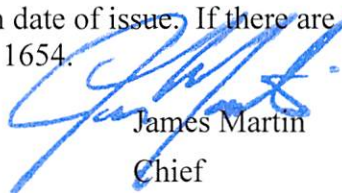
**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-701237, issued to HARPER, HAYDEN ENERGY KA, LLC, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.

  
James Martin  
Chief

Operator's Well No: DESPARD - 1  
Farm Name: ROSS, MICHAEL , INC.  
**API Well Number: 47-701237**  
**Permit Type: Plugging**  
Date Issued: 01/09/2014

**Promoting a healthy environment.**

## PERMIT CONDITIONS

West Virginia Code § 22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

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### CONDITIONS

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1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
3. Well work activities shall not constitute a hazard to the safety of persons.

7012370  
1) Date October 24, 20 13  
2) Operator's  
Well No. Despard - 1  
3) API Well No. 47-007 - 01237

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil \_\_\_\_ / Gas XX / Liquid injection \_\_\_\_ / Waste disposal \_\_\_\_ /  
(If "Gas, Production \_\_\_\_ or Underground storage \_\_\_\_) Deep \_\_\_\_ / Shallow XX

5) Location: Elevation 900.88 Watershed Bower Run of Copen Run of Little Kanawha River  
District Salt Lick 04 County Braxton 07 Quadrangle Burnsville WV 7 1/2' 272

6) Well Operator Hayden Harper Energy KA, LLC 7) Designated Agent Brett McDonough  
Address 1001 Moorehead Square Drive - Suite 350 Address 1001 Moorehead Square Drive - Suite 350  
Charlotte, NC 28203 Charlotte, NC 28203

8) Oil and Gas Inspector to be notified 9) Plugging Contractor  
Name Bryan Harris Name Patchwork Oil and Gas  
Address P.O. Box 157 Address 8165 Elizabeth Pike  
Volga WV 26238 Elizabeth, WV 26143

10) Work Order: The work order for the manner of plugging this well is as follows:  
See attached procedure and diagram on following page "Despard 1; 47-007-01237"

Plug required across any casing cut - 4 1/2"

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Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector Bryan Harris Date 12-5-13

701237P

1:3 78 546

LATITUDE 38° 52' 30"  
(15') 38° 55'

(15') 80° 40'  
LONGITUDE 80° 42' 30"

Magnetic North

COAL & SURFACE OWNED BY  
Rappert-Fairmont Coal Co.  
Fairmont, W. Va.

Minimum Error of Closure 1 in 200

Source of Elevation USGS B.M. on B.R.D.R.R. (Coal and Smoke R.)  
at Carter Hollow 1 mi SE - B06

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

Fracture ☐

New Location ☒

Drill Deeper ☐

Abandonment ☐

Map No. \_\_\_\_\_

Signed: W. H. H. H.

Squares: N S E W

Company <u>WACO OIL &amp; GAS CO.</u>	<p>STATE OF WEST VIRGINIA DEPARTMENT OF MINES OIL AND GAS DIVISION CHARLESTON</p> <p>WELL LOCATION MAP</p> <p>FILE NO. <u>BRAX 1237</u></p> <p>+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500' latitude and longitude lines being represented by border lines as shown.</p> <p>— Denotes one inch space on border line of original tracing. <u>47-007</u></p>
Address <u>Postoffice Box 4, Glenville, West Va.</u>	
Farm <u>Despard Lease</u>	
Tract _____ Acres <u>30</u> Lease No. _____	
Well (Farm) No. <u>One</u> Serial No. _____	
Elevation (Spirit Level) <u>883</u>	
Quadrangle <u>Burnsville 7 1/2' 15'</u>	
County <u>Braxton</u> District <u>Salt Link</u>	
Engineer <u>W. H. H. H.</u>	
Engineer's Registration No. <u>1227</u> <u>LLS 200</u>	
File No. _____ Drawing No. _____	
Date <u>Dec. 29, 1977</u> Scale <u>1" = 500'</u>	

TRASCO 500 5-77 MC8333

2000 - INJIN SAND

**Existing Conditions:**

8 $\frac{5}{8}$ " casing, 0-287'; 175 bags CTS  
 4 $\frac{1}{2}$ " casing, 0-2072'; 110 bags cement  
 TD = 2120'

3rd Plug; C1A cement 175' to surface

Bentonite Gel 175' to 237'

2nd Plug; C1A cement 237' to 437'

287' of 8-5/8" Casing  
 cemented to surface

Bentonite Gel  
 487' to 1685'

2072' of 4-1/2"  
 casing

Estimated location  
 110 bags cement

**Plugging Procedure:**

- 1) Attempt to clean out well bore to TD
- 2) Circulate gel to 20' above cleaned out area, place cement plug from BOH to 1685'
- 3) Freepoint the 4-1/2" casing, sever and remove above the original cemented depth,  $\pm 1200'$
- 4) Circulate gel from 1685' to 437'; place cement plug from 437' to 237'
- 5) Circulate gel 237' to 175'; place cement plug from 175' to surface
- 6) Remove tubing
- 7) Erect monument with API number affixed.

First Plug; C1A  
 cement  $\pm 2072'$  to 1685'

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 West Virginia Dept. of Environmental Protection

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DEC 18 2013  
 Big Injun

WV Department of  
 Environmental Protection

**Despard 1; 47-007-01237**

not to scale

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

## Oil and Gas Division

## WELL RECORD

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OIL & GAS DIVISION  
DEPT. OF MINES

Quadrangle BurnsvillePermit No. BRAX-1237

Rotary XXX Oil         
Cable        Gas XXX  
Recycling        Comb.         
Water Flood        Storage         
Disposal        (Kind)       

Company Waco Oil & Gas Co., Inc.  
Address P. O. Box 4, Glenville, WV 26351  
Farm Despard Acres 30  
Location (waters) Copen Run  
Well No. One (1) Elev. 883'  
District Salt Lick County Braxton  
The surface of tract is owned in fee by Reppert-Fairmont Coal Company  
Address Clarksburg, WV 26301  
Mineral rights are owned by Parkersburg National Bank, Etal Address Parkersburg, WV 26101  
Drilling Commenced March 9, 1978  
Drilling Completed March 14, 1978  
Initial open flow NA cu. ft. NA bbls.  
Final production 98 cu. ft. per day Trace bbls.  
Well open 4 hrs. before test 560 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10"			
9 5/8			
8 5/8	287'	287'	175 sacks
7			
5 1/2			
4 1/2		2072'	110 sacks
3			
2			
Liners Used			

## Well treatment details:

Attach copy of cementing record.

Halliburton: 3/21/78 - Injun Sand - 40,000# Sand, 500 GA and 539 BGW.Blue Monday - 5,000# Sand, 750 GA and 348 BGW.

Coal was encountered at        Feet        Inches  
Fresh water        Feet        Salt Water        Feet  
Producing Sand Blue Monday and Injun Sands Depth 1810'-1820' and 1965'-2044'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Fill Dirt			0	68		
Shale			68	270		
Sand			270	350		
Shale			350	490		
Sand			490	540		
Sand & Shale			540	830		
Shale			830	860		
Sand			860	1060		
Shale			1060	1095		
Sand			1095	1110		
Shale			1110	1130		
Sand			1130	1170		
Shale			1170	1425		
Sand			1425	1485		
Shale			1485	1505		
Sand			1505	1610		
Shale			1610	1650		
Sand			1650	1695		
Shale			1695	1725		
Lime			1725	1810		
Sand			1810	1824		
Shale			1824	1832		
Lime			1832	1925		
Sandy Lime			1925	2030		

(over)

\* Indicates Electric Log tops in the remarks section.

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Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Shaly Sand TD			2030 2120	2120		

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Date July 15, 1978

APPROVED WACO OIL & GAS CO., INC. (Owner)

By E. A. Broome (Title) Agent



WW-4A  
Revised 6-07

1) Date: October 24, 2013  
2) Operator's Well Number  
Despard - 1

3) API Well No.: 47 - 007 - 01237

**STATE OF WEST VIRGINIA**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS**  
**NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL**

<p>4) Surface Owner(s) to be served:</p> <p>(a) Name <u>Michael Ross, Inc.</u> ✓ Address <u>PO Box 219</u> <u>Coalton WV 26257</u></p> <p>(b) Name _____ Address _____</p> <p>(c) Name _____ Address _____</p> <p>6) Inspector <u>Bryan Harris</u> ✓ Address <u>P.O Box 157</u> <u>Volga WV 26238</u> Telephone <u>304-553-6087 cell, or 304-472-1732</u></p>	<p>5) (a) Coal Operator</p> <p>Name <u>n/a</u> Address _____</p> <p>(b) Coal Owner(s) with Declaration</p> <p>Name <u>Michael Ross, Inc.</u> ✓ Address <u>PO Box 219</u> <u>Coalton WV 26257</u></p> <p>(c) Coal Lessee with Declaration</p> <p>Name <u>n/a</u> Address _____</p>
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

**TO THE PERSONS NAMED ABOVE:** You should have received this Form and the following documents:

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.



Well Operator HAYDEN HARPER ENERGY KA, LLC  
By: Brett McDonough  
Its: Vice President  
Address 1001 Moorehead Square Drive - Suite 350  
Charlotte, NC 28203  
Telephone 704-343-2447

Subscribed and sworn before me this 18<sup>th</sup> day of November  
DeeDee Taylor Notary Public  
My Commission Expires May 17<sup>th</sup>, 2016

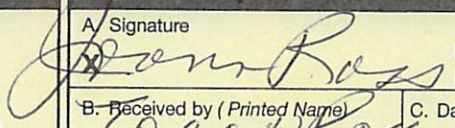
**Oil and Gas Privacy Notice**

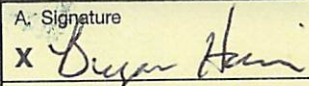
The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

**Received**  
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Office of Oil and Gas  
Department of Environmental Protection



701237A

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<ul style="list-style-type: none"> <li>Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>		A. Signature  <input type="checkbox"/> Agent <input checked="" type="checkbox"/> Addressee	
1. Article Addressed to:  <div style="border: 1px solid black; padding: 5px; width: fit-content;"> Michael Ross, Inc.  P. O. Box 219  Coalton, WV 26257 </div>		B. Received by (Printed Name) <u>TO ADDRESS</u> C. Date of Delivery <u>11/21/13</u> D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No	
		3. Service Type <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.	
		4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes	
2. Article Number (Transfer from service label)		7007 0710 0003 9518 1836	
PS Form 3811, February 2004		Domestic Return Receipt	
		102595-02-M-1540	

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<ul style="list-style-type: none"> <li>Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>		A. Signature  <input type="checkbox"/> Agent <input checked="" type="checkbox"/> Addressee	
1. Article Addressed to:  <div style="border: 1px solid black; padding: 5px; width: fit-content;"> Bryan Harris  P. O. Box 157  Volga, WV 26238 </div>		B. Received by (Printed Name) <u>Bryan Harris</u> C. Date of Delivery <u>12/2/13</u> D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No	
		3. Service Type <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input checked="" type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.	
		4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes	
2. Article Number (Transfer from service label)		7007 0710 0003 9518 1843	
PS Form 3811, February 2004		Domestic Return Receipt	
		102595-02-M-1540	

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WW-9  
(5/13)

Page \_\_\_\_\_ of \_\_\_\_\_  
API Number 47 - 007 - 01237  
Operator's Well No. Despard 1

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name HAYDEN HARPER ENERGY KA, LLC OP Code 494495359

Watershed (HUC 10) 0503020303 Bower Run of Copen Run Quadrangle Burnsville WV 7½'

Elevation 900.88 County Braxton District Salt Lick

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes \_\_\_\_\_ No XX

Will a pit be used for drill cuttings? Yes XX No \_\_\_\_\_

If so, please describe anticipated pit waste: fluids used and associated with well plugging activities

Will a synthetic liner be used in the pit? Yes XX No \_\_\_\_\_ If so, what ml.? 20 ml

Proposed Disposal Method For Treated Pit Wastes:

- ☒ Land Application
- \_\_\_\_\_ Underground Injection ( UIC Permit Number \_\_\_\_\_ )
- \_\_\_\_\_ Reuse (at API Number \_\_\_\_\_ )
- \_\_\_\_\_ Off Site Disposal (Supply form WW-9 for disposal location)
- \_\_\_\_\_ Other (Explain \_\_\_\_\_)

Will closed loop system be used? yes 60

Drilling medium anticipated for this well? Air, freshwater, oil based, etc. n/a

-If oil based, what type? Synthetic, petroleum, etc. \_\_\_\_\_

Additives to be used in drilling medium? \_\_\_\_\_

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. \_\_\_\_\_

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) \_\_\_\_\_

-Landfill or offsite name/permit number? \_\_\_\_\_

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature \_\_\_\_\_

Company Official (Typed Name) Brett McDonough

Company Official Title Vice President

Subscribed and sworn before me this 18<sup>th</sup> day of November, 20 13

My commission expires May 17<sup>th</sup>, 2016

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DEEDEE TAYLOR

Notary Public  
Environmental Protection  
Environmental Protection  
NORTH CAROLINA

70237A

Form WW-9

Operator's Well No. Despard - 1**HAYDEN HARPER ENERGY KA, LLC**Proposed Revegetation Treatment: Acres Disturbed 1.33 Prevegetation pH 6.4Lime 2 Tons/acre or to correct to pH 6.5Fertilizer (10-20-20 or equivalent) 500 lbs/acre (500 lbs minimum)Mulch pulp fiber at 0.5 - 0.75 Tons/acre

## Seed Mixtures

Area I		Area II	
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	40	Tall Fescue	40
Ladino Clover	5	Ladino Clover	5

Attach:

Drawing(s) of road, location, pit and proposed area for land application.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Byron Hami

Comments: \_\_\_\_\_

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JAN 06 2014

Title: Oil & Gas InspectorDate: 12-5-13WV Department of  
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Field Reviewed?

☒

Yes

☐

No



## WW-9 Despard 1 Construction and Reclamation Plan

October 24, 2013

Hayden Harper Energy, KA LLC  
Existing well Despard 1

TOPO SECTION OF:  
United States Department of the Interior  
Geological Survey - Burnsville, WV - 7½ Quadrangle

### PROPOSED CULVERT INVENTORY (For Bid Purposes Only)

15" (Minimum) Culverts	None
------------------------	------

Additional Culverts and/or other drainage structures and sediment control devices may be required by the WVDEP Oil & Gas Inspector. Operator is responsible for coordination with contractor and True Line regarding any changes or additions the State may require.

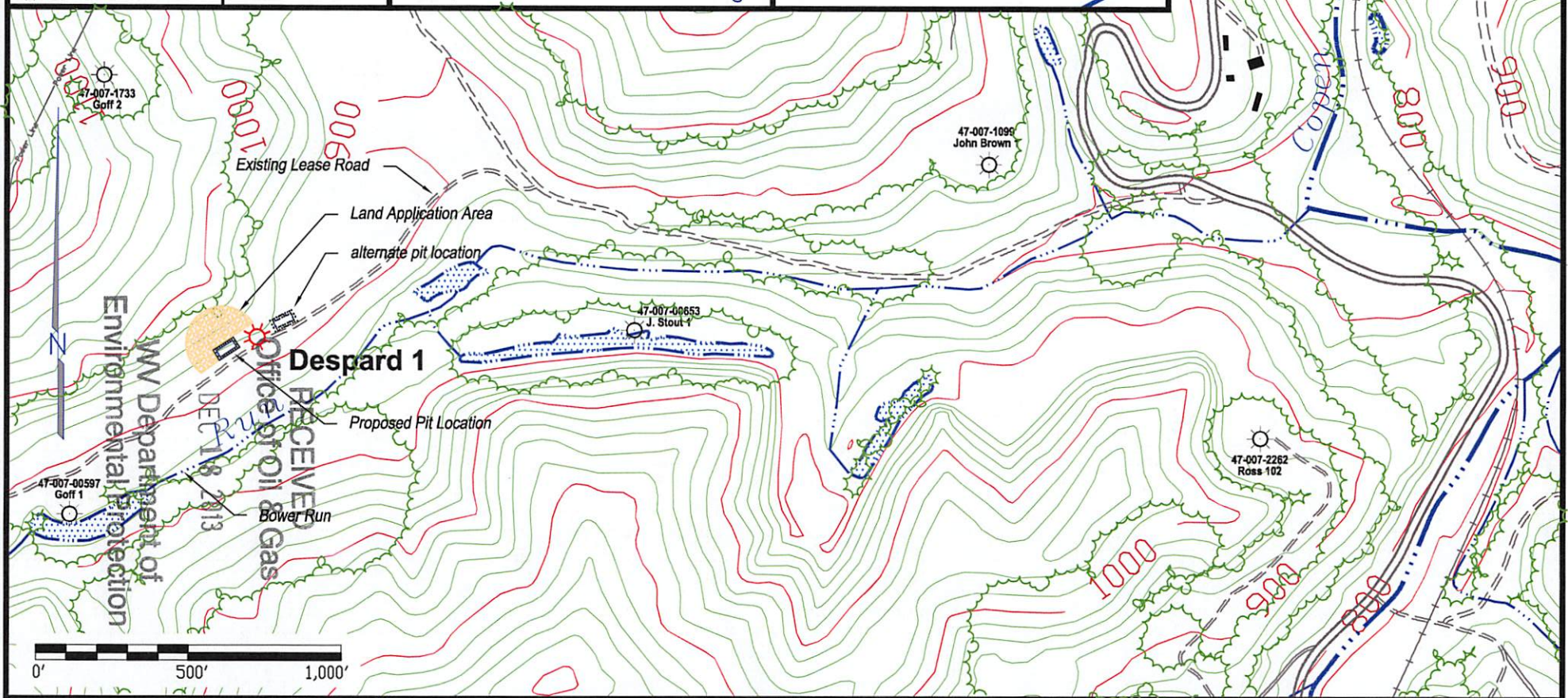
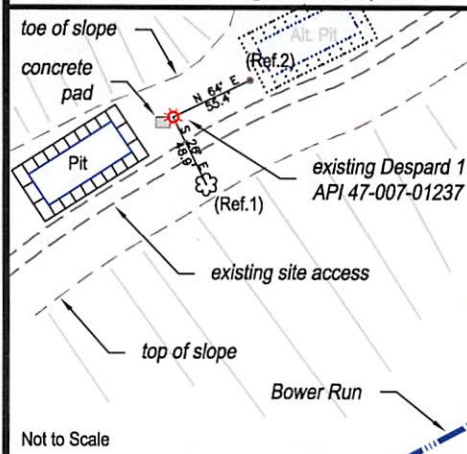
### PROJECTED EARTHEN DISTURBANCE

Well Location Site	0.13 Acres
Access Road	1.20 Acres
Approximate Total Disturbance	1.33 Acres

### LEGEND

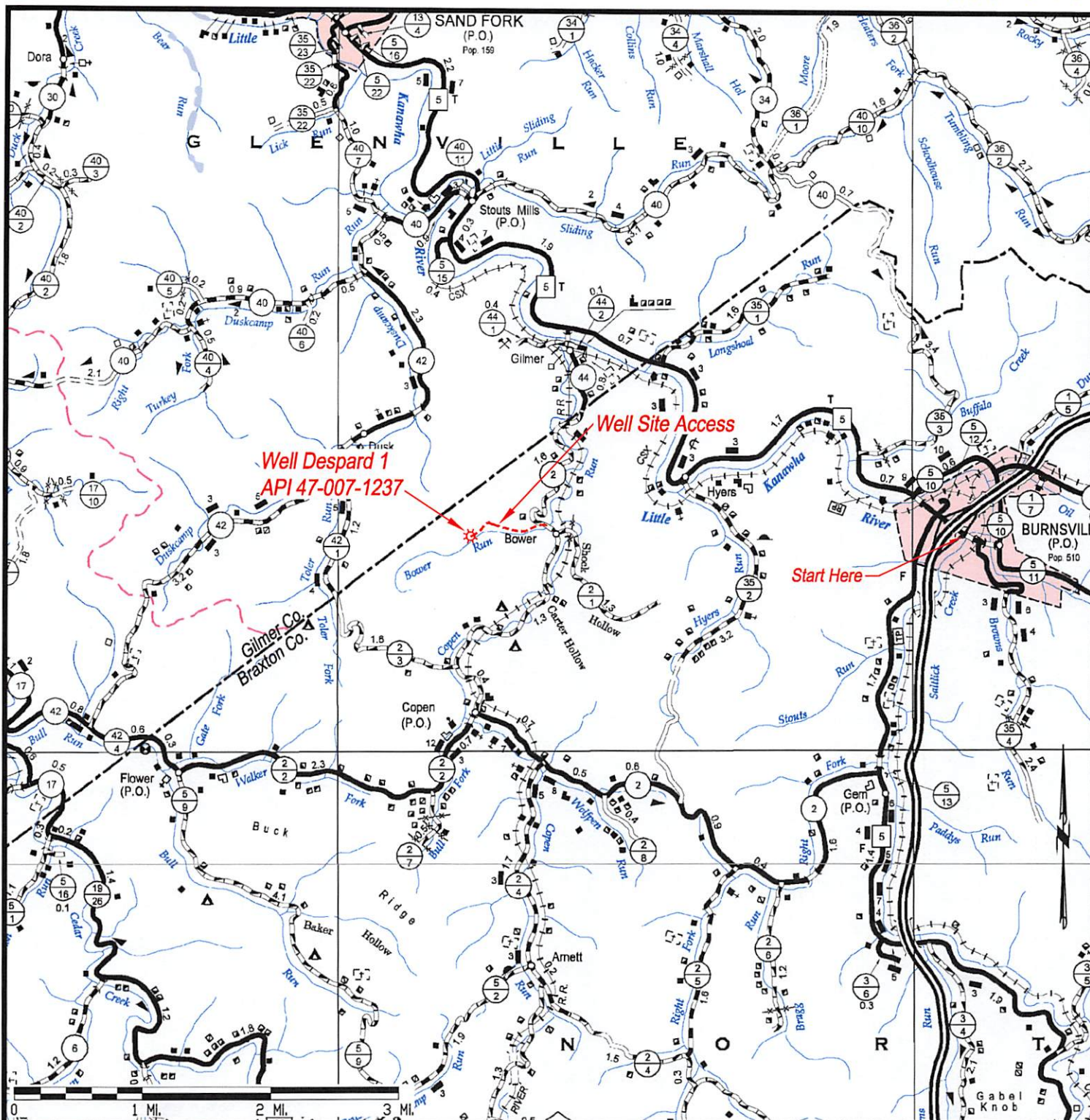
Proposed Road	---
Existing Road	---
Existing Culvert	---
Proposed Culvert (15" Min. unless noted)	---
Proposed Stream Crossing	---
Cross Drain	---
Diversion Ditch	---
Silt Fence	---
Brush Barrier	---
Tree Line	---
Road Ditch	---
Gas Line	---
Fence Line	---
Water Well	---
House/Structure	---
Spring	---
Wet Spot	---

### Detail Sketch existing well Despard 1



701237P





## Driving Directions:

1. From the north bound exit of Interstate 79 at Burnsville, turn left (northwest) ½ mile to intersect WV State Rt. 5. Turn left on WV St. Rt. 5.
2. Proceed south on Rt. 5 toward Gem, WV for 2½ miles and the intersection with Braxton Co. Rt. 2. Turn right (west) on Co. Rt. 2.
3. Follow Co. Rt. 2 for a distance of 4.7 miles to the community of Copen, WV and a "T" intersection. Turn right onto the gravel road, Rt. 2.
4. Continue in a northerly direction on Braxton Co, Rt. 2, now gravel, for 2.1 miles along Copen Run to the existing lease road on the left.
5. Proceed up Bower Run on the existing lease road for ½ mile to a junction with an existing road on the left. Make the left turn.
6. Follow the existing lease road continuing up Bower Run for 0.2 miles to the Despard 1 site on the right side of the road.

**HAYDEN  
HARPER**

**Despard 1**

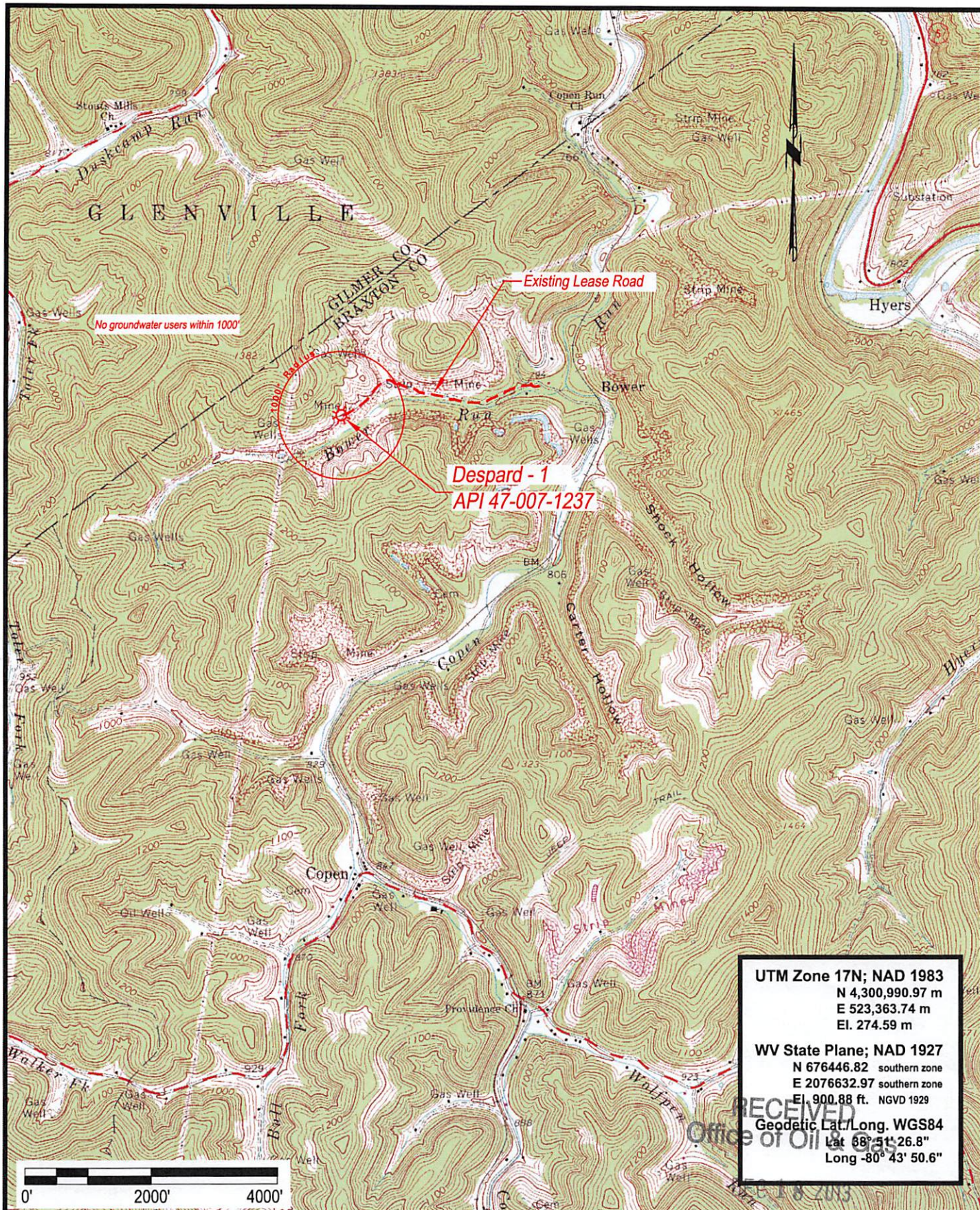
API 47-007-01237

Located near Copen in Salt Lick District of Braxton County, West Virginia

Driving Directions - October 24, 2013  
Braxton County General Highway Map Sheet 1



701237A



**HAYDEN  
HARPER**

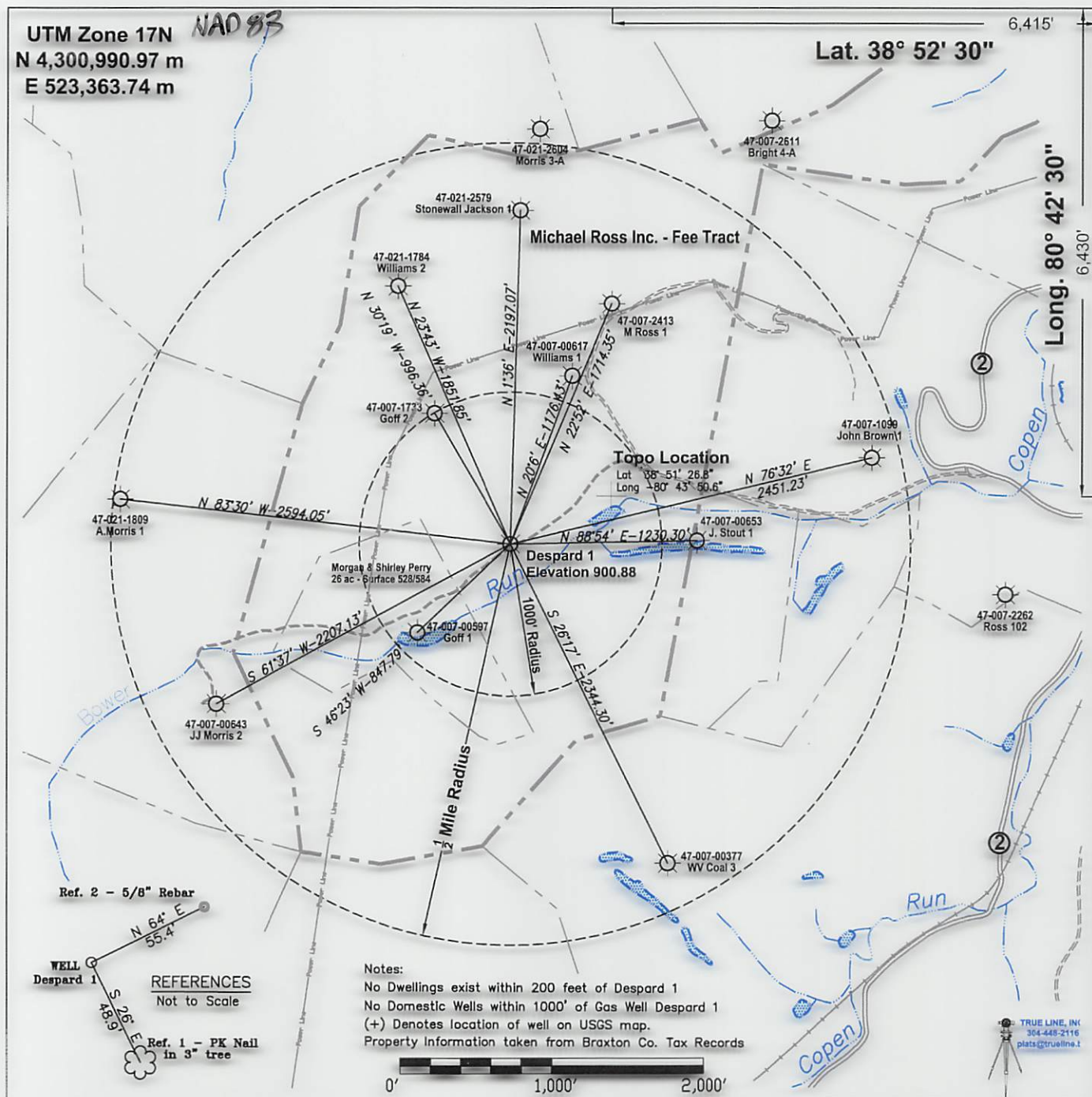
Despard 1

API 47-007-01237

Located near Copen in Salt Lick District of Braxton County, West Virginia

WV Department of  
Environmental Protection  
October 24, 2013





FILE #: CGI-Hayden,Harper\Despard-1  
DRAWING #: WW-6 - Despard-1.pdf  
SCALE: see bar scale above  
MINIMUM DEGREE OF ACCURACY: 1:2500  
PROVEN SOURCE OF ELEVATION: survey grade GPS

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

Signed:

R.P.E.:

L.L.S.: 1065



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
WVDEP  
OFFICE OF OIL & GAS  
601 57TH STREET  
CHARLESTON, WV 25304



DATE: October 24, 2013

OPERATOR'S WELL #: Despard - 1

API WELL #: 47 007 01237 P  
STATE COUNTY PERMIT

Well Type: ☐ Oil ☐ Waste Disposal ☒ Production ☐ Deep  
☒ Gas ☐ Liquid Injection ☐ Storage ☒ Shallow

WATERSHED: Bower Run of Copen Run of Little Kanawha River ELEVATION: 900.88

COUNTY/DISTRICT: 007-Braxton / 4-Salt Lick QUADRANGLE: 272 - BURNSVILLE

SURFACE OWNER: Michael Ross, Inc. ACREAGE: 259.29 ac.

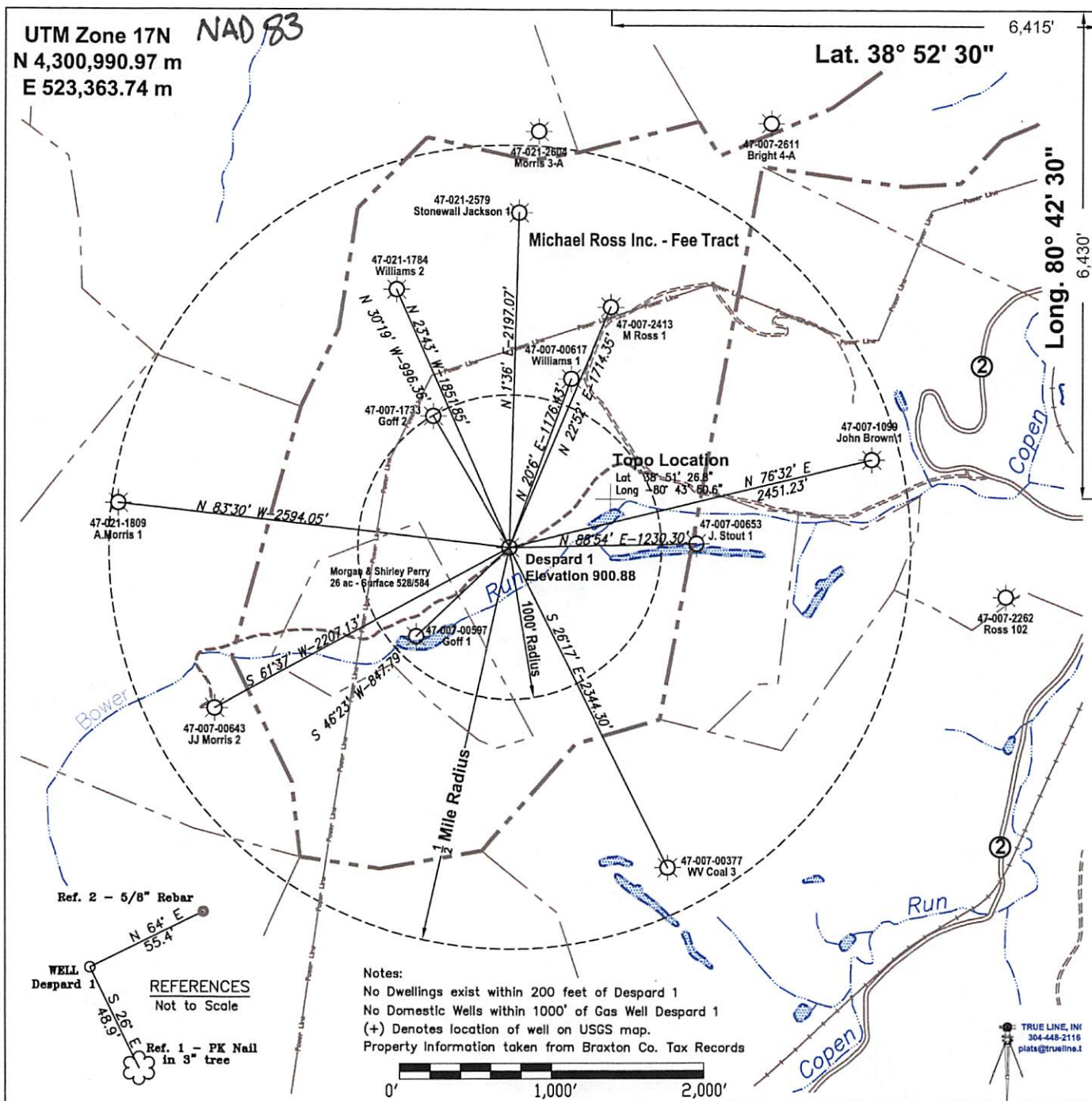
OIL & GAS ROYALTY OWNER: Michael Ross, Inc. ACREAGE: 30 ac.

DRILL ☐ CONVERT ☐ DRILL DEEPER ☐ REDRILL ☐ FRACTURE OR STIMULATE ☐  
PLUG OFF OLD FORMATION ☐ PERFORATE NEW FORMATION ☐ PLUG & ABANDON ☒  
CLEAN OUT & REPLUG ☐ OTHER CHANGE ☐ (SPECIFY):

TARGET FORMATION: Big Injun ESTIMATED DEPTH: 2120

WELL OPERATOR HARPER, HAYDEN ENERGY KA, LLC DESIGNATED AGENT Brett McDonough  
Address 1001 MOOREHEAD SQUARE DR. - SUITE 350 Address 1001 Moorehead Square Drive - Suite 350  
City CHARLOTTE State NC Zip Code 28203 City Charlotte State NC Zip Code 28203





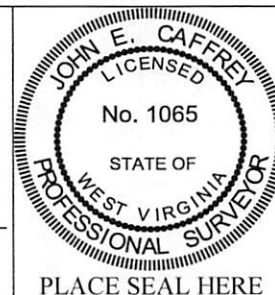
FILE #: CGI-Hayden,Harper\Despard-1  
DRAWING #: WW-6 - Despard-1.pdf  
SCALE: see bar scale above  
MINIMUM DEGREE OF ACCURACY: 1:2500  
PROVEN SOURCE OF ELEVATION: survey grade GPS

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

Signed:

R.P.E.

L.L.S.: 1065



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
**WVDEP**  
**OFFICE OF OIL & GAS**  
601 57TH STREET  
CHARLESTON, WV 25304



DATE: October 24, 2013

OPERATOR'S WELL #: Despard - 1

API WELL #: 47 007 01237 **P**  
STATE COUNTY PERMIT

Well Type: ☐ Oil ☐ Waste Disposal ☒ Production ☐ Deep  
☒ Gas ☐ Liquid Injection ☐ Storage ☒ Shallow

WATERSHED: Bower Run of Copen Run of Little Kanawha River

ELEVATION: 900.88

COUNTY/DISTRICT: 007-Braxton / 4-Salt Lick

QUADRANGLE: 272 - BURNSVILLE

SURFACE OWNER: Michael Ross, Inc.

ACREAGE: 259.29 ac.

OIL & GAS ROYALTY OWNER: Michael Ross, Inc.

ACREAGE: 30 ac.

DRILL ☐ CONVERT ☐ DRILL DEEPER ☐ REDRILL ☐ FRACTURE OR STIMULATE ☐

PLUG OFF OLD FORMATION ☐ PERFORATE NEW FORMATION ☐ PLUG & ABANDON ☒

CLEAN OUT & REPLUG ☐ OTHER CHANGE ☐ (SPECIFY):

TARGET FORMATION: Big Injun

ESTIMATED DEPTH: 2120

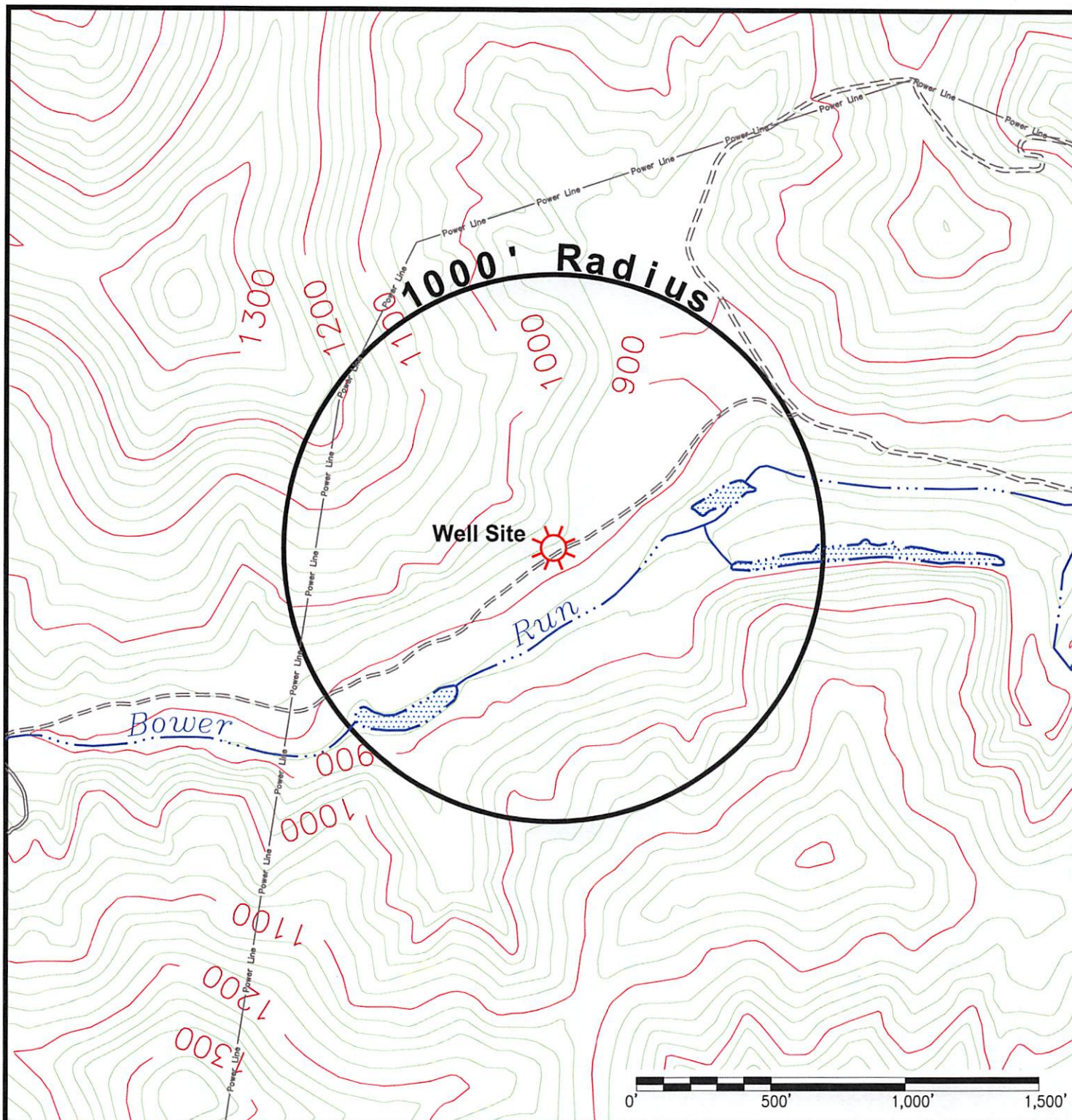
WELL OPERATOR HARPER, HAYDEN ENERGY KA, LLC  
Address 1001 MOOREHEAD SQUARE DR. - SUITE 350  
City CHARLOTTE State NC Zip Code 28203

DESIGNATED AGENT Brett McDonough  
Address 1001 Moorehead Square Drive - Suite 350  
City Charlotte State NC Zip Code 28203

**RECEIVED**  
**Office of Oil & Gas**  
**DEC 18 2013**  
**WV Department of Environmental Protection**



701237A



## Burnsville WV, 7-1/2' Quadrangle

### Notes:

No water wells or other sources of groundwater currently being used for human consumption, domestic animals or other general uses were identified within 1000' of the proposed well site.

### Legend:

Water Well (W)  
 Spring (S)  
 Wet Spot (Wet Spot symbol)  
 House/Structure (House/Structure symbol)

DEC 18 2013

**HAYDEN  
HARPER**

**WW-9 Despard 1**

Located near Copen in Salt Lick District of Braxton County, West Virginia

WV Department of  
Environmental Protection